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Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES

AS OF
May 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefor subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SPRING IS ON THE WAY.

Published by Soil Conservation Service

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland Oregon 97209.

Copies of state and local reports may also be obtained from the state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	2490 W. 26th Avenue, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	32 E. Babcock, Bozeman, Montana 59715
Nevada	P.O. Box 4850, Reno Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	100 E. "B" St., Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 - -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



Water Supply Outlook For Nevada

AND

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS



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All Averages are for 1961-1980, 20 Year Period

WATER SUPPLY OUTLOOK

FOR NEVADA

STREAMFLOW CONDITIONS

Streamflow in the Humboldt River is at record levels. Inflow into Rye Patch Reservoir on May 1, 1984, was approximately 8000 cfs which far exceeds the previous record of 6000 cfs measured in 1952. Reservoir outflow was increased to 5900 cfs on May 3, 1984, and is above the past high of 4600 cfs also reported in 1952. Significant erosion, caused by the high flows, is occurring below the dam and irrigation structures are being endangered. Approximately 2000 acres of agricultural land have been inundated in the Lovelock Valley and an additional 1900 acres could be flooded if dikes in the lower portion of the valley fail.

The Humboldt River near Winnemucca flooded approximately 30,000 acres of agricultural land. The melt from the record snowpack was below normal for the month of April, and large amounts of runoff will contribute to the river flow once melt starts in earnest. The high river flows have blocked access to many ranches in the Winnemucca area and have caused the closure of Highway 95 bridge.

SNOW MEASUREMENTS

The snowpack conditions in the western and northern regions of the state are at or well above average. The Tahoe-Truckee Basins are 107% of average. For the second month in a row the Carson-Walker Basins are 100% of average. The Humboldt Basin percent of average increased during the month based mainly on the slow melt of the snowpack in the lower portions of the basin. The Lower Humboldt River is 344% of average as compared to 289% for April first. The Upper Humboldt River segment is 258% of average for May first, and the Snake River Basin snowpack decreased slightly during the month but is still 190% of the average. Storms during April plus below average snowmelt increased the snowpack in the Owyhee River Basin to 285% of average.

NORTHERN AND EASTERN NEVADA

The extraordinary snowpack in the northern portion of the state remained well above the averages for May first. All three snow courses in Lamoille Canyon showed increases in water content during the month. This results in the percent of average increasing from

175% on April first to 230% on May first. The Jarbridge Mountains also remain well above average with the snowpack measuring 190% of average. The snowpack in the Santa Rosa Mountains is significantly above average. The lower snow courses registered some melt, but was below the normal rate for May. The higher elevation snow courses were stable or had increases in water content.

Snowpack conditions in the eastern portion of the state remain excellent. SNOTEL readings indicate a relatively stable snowpack condition since April first.

SIERRA EAST SLOPE

The Tahoe-Truckee Basins saw a slight increase in snowpack percentages during the month. The two basins are 105% of average compared to 100% on April first. Most snow courses show a decrease in water content since April first but, the rate of snow melt is slightly below average for the month.

All courses in the two basins remain approximately 50% of last year.

The conditions in the Carson-Walker Basins were relatively stable since last month. The two basins are at 95% and 105% of average, respectively.

RESERVOIR STORAGE

The total storage increased during the month and is now slightly above average. Rye Patch Reservoir storage decreased during the month in anticipation of the record runoff forecasted. Storage in the Truckee River drainage has been adjusted to accommodate an average water supply condition. The surface level of Pyramid Lake increased two-tenths during the month. This brings the total surface rise since October 1, 1983 to 6.63 feet.

STREAMFLOW FORECASTS

The streamflow forecast for the Humboldt River at Palisade increased 60,000 acre feet since April first and is now at 710,000 acre feet for the period April through July. The forecast for the Humboldt River at Comus increased to 610,000 acre feet. The expected flows are 310% and 353% of average, respectively. The April to July volume forecast for the North Humboldt River at Devils Gate is 190,000 acre feet or 315% of average.

The two forecasts for the Owyhee River are both 275% of average. The Owyhee River near Owyhee is expected to flow 235,000 acre feet between April and July, while near Gold Creek the river is forecasted at 93,000 acre feet. All other forecast locations in northern and eastern Nevada are expected to be 190% to 360% of average.

The Truckee River at Farad, California, is estimated at 270,000 acre feet and the Little Truckee River above Boca, California, at 90,000 acre feet. Both volumes are 100% of the 1961-1980 average.

Forecast percentages on the Carson River range from 110% to 120% of average. The expected 200 cfs low flow date for the East Fork Carson River is July 25 and July 9 for the 500 cfs flow rate.

The East Fork Walker River near Bridgeport will have an April to July volume of 75,000 acre feet while the West Fork near Coleville, California, will flow 170,000 acre feet. Both forecasts are 115% of average.

STREAMFLOW FORECASTS (Thousand Acre Feet) as of: May 1, 1984

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1961-80 Period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average †
<u>TRUCKEE RIVER</u>				
Little Truckee River above Boca, CA	Apr-July	90	98	92.5
Truckee River at Farad, CA <u>1/</u>	Apr-July	270	100	269
Lake Tahoe Rise in Feet (assuming gates closed)	April 1 to High	1.5	108	1.39
Pyramid Lake Rise	Oct 1 to High	8.18	745	1.1
Walker Lake Rise	Oct 1 to High	6.87	---	0.1
<u>CARSON RIVER</u>				
E. Carson near Gardnerville, NV	Apr-July	205	110	187
W. Walker at Woodfords, CA	Apr-July	57	108	53
Carson River near Carson City, NV	Apr-July	210	115	182
Carson River near Ft. Churchill, NV	Apr-July	200	120	166
<u>WALKER RIVER</u>				
E. Walker near Bridgeport, CA <u>2/</u>	Apr-Aug	75	115	66
W. Walker below L. Walker nr Coleville, CA	Apr-July	170	115	148
<u>SNAKE RIVER</u>				
Owyhee River near Owyhee, NV <u>3/</u>	Apr-July	235	275	85.4
Owyhee River near Gold Crk., NV <u>3/</u>	Apr-July	65	278	23.4
Salmon Falls Creek near San Jacinto, NV	May-Sept	135	220	60.9
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, NV	Apr-July	55	192	28.7
S. Fork Humboldt above Dixie Creek, NV	Apr-July	190	253	75
Marys River near Deeth, NV	Apr-July	93	253	37
N. Fork Humboldt at Devils Gate, NV	Apr-July	110	316	35
Humboldt River at Palisade, NV	Apr-July	710	309	230
Humboldt River at Comus, NV	Apr-July	610	353	173
Martin Creek near Paradise, NV	Apr-July	50	315	15.8
<u>NORTHERN GREAT BASIN</u>				
Bidwell Creek near Ft. Bidwell, CA	Apr-July	18	150	12
Mill Creek near Cedarville, CA	Apr-July	6.6	160	4.1
Deep Creek near Cedarville, CA	Apr-July	5.0	139	3.6
Eagle Creek near Eagleville, CA	Apr-July	6.4	150	4.3
<u>COLORADO RIVER</u>				
Virgin River at Hurricane, UT	Apr-June	25	81	31

NOTE: Streamflow forecasts which appear in this Bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service.

1/ Observed flow plus change in storage in Boca, Stampede, and Prosser Reservoirs, Donner, Independence, and Martis Creek Lakes, and minus the flow at Truckee.

2/ Observed flow plus change in storage in Bridgeport Reservoir.

3/ Observed flow plus change in storage in Wild Horse Reservoir.

RESERVOIR STORAGE (Thousand Acre Feet) AS OF MAY 1, 1984

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
Owyhee	Wild Horse	72	64	76	35
Lower Humboldt	Rye Patch	194	142	168	135
Colorado	Mohave	1,810	1,525	1,628	1,700
Colorado	Mead	26,159	23,784	24,614	17,200
Tahoe	Tahoe	745	541	509	513
Truckee	Boca	41	32	10	30
Truckee	Stampede**	222	205	228	129*
Truckee	Prosser***	30	15	9	12*
Carson	Lahontan	295	219	182	237
West Walker	Topaz	59	55	17	42
East Walker	Bridgeport	42	38	10	32

* Adjusted average.

** Storage began August 1, 1969.

*** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

1961-1980 Average

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	705	1,172	786
January 1	1,211	1,070	844
February 1	1,041	1,114	920
March 1	992	1,089	968
April 1	976	1,079	1,010
May 1	1,091	972	1,024

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.

TOTAL USABLE CAPACITY 1,448

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
E. Fork Carson River nr Gardnerville, NV	1600-2100	1,865
Carson River nr Carson City, NV	2345-2895	2,098
Carson River nr Ft. Churchill, NV	2075-2575	1,914
W. Walker R. below L. Walker R. nr Coleville, CA	1560-1960	1,589

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River nr Gardnerville, NV	200	July 25	July 24
East Carson River nr Gardnerville, NV	500	July 9	June 28

PRECIPITATION (Inches) Soil Conservation Service

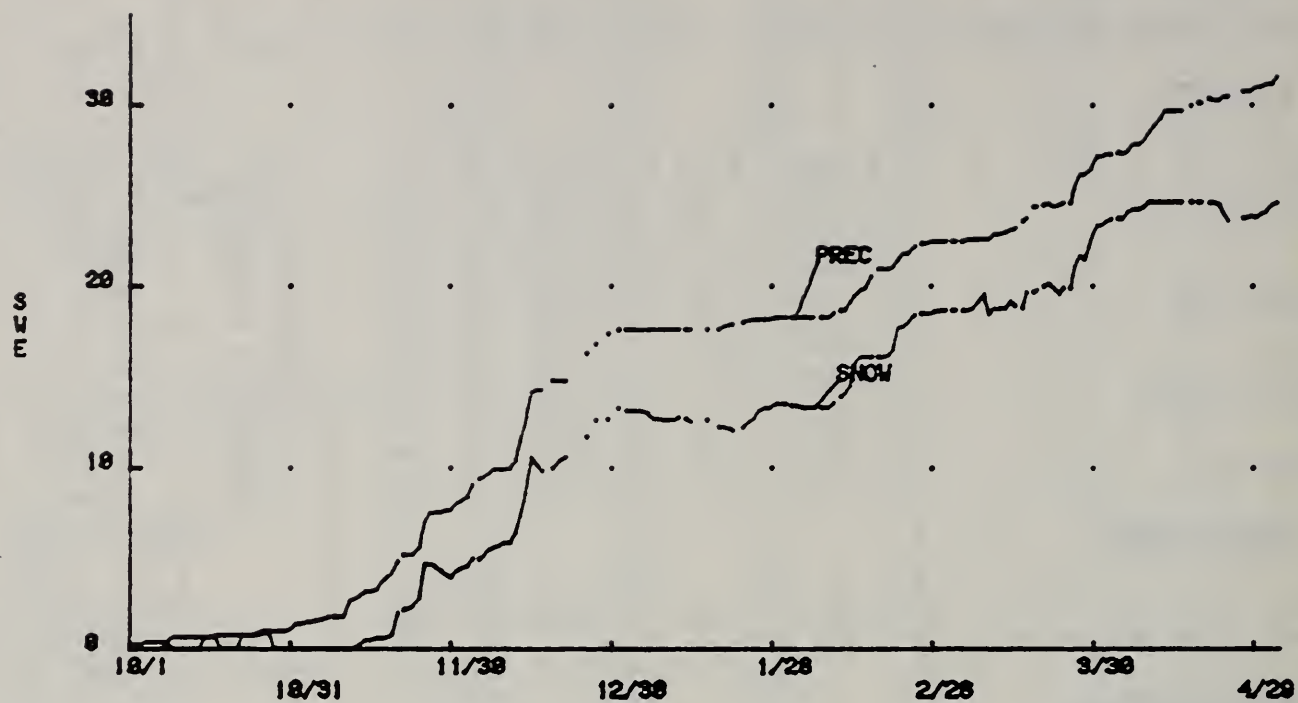
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	MAY 1 Average
<u>TRUCKEE-TAHOE</u>							
Big Meadows	8,300	5/1/84	2.70	4.7	32.80	48.9	48.00
Echo Peak, CA	7,800	5/1/84	4.50	4.2	75.60	81.7	51.15
Fallen Leaf, CA	6,240	5/1/84	1.00	0.6	18.40	45.6	30.45
Hagan's Meadow, CA	8,000	5/1/84	2.00	4.5	31.00	38.9	29.14
Heavenly Valley, CA	8,800	5/1/84	3.00	6.2	33.80	49.2	32.04
Independence Camp, CA	7,000	5/1/84	1.70	5.5	37.90	50.2	31.78
Independence Creek, CA	6,500	5/1/84	2.30	4.2	39.80	50.6	32.71
Independence Lake, CA	8,450	5/1/84	3.70	4.8	-----	67.5e	42.42
Marlette Lake	8,000	5/1/84	2.60	6.3	36.00	52.8	31.27
Mt. Rose	9,000	5/1/84	2.90	6.9	38.60	62.3e	27.92
Mt. Rose Ski Area	8,850	5/1/84	4.00	9.8	60.20	86.9	63.99
Rubicon #2, CA	7,500	5/1/84	4.00	6.1	47.00	61.3	47.14
Squaw Valley Gold Coast, CA	7,800	5/1/84	4.80	11.0	-----	77.3	83.89
Tahoe City Cross, CA	6,750	5/1/84	2.60	3.9	41.90	50.2	39.88
Truckee #2, CA	6,400	5/1/84	1.80	5.4	35.50	48.5	35.61
Ward Creek #3, CA	6,750	5/1/84	5.20	7.7	81.90	95.3	63.53
<u>CARSON-WALKER</u>							
Blue Lakes, CA	8,000	5/1/84	3.20	10.1	44.30	73.1	52.82
Ebbetts Pass, CA	8,700	5/1/84	4.40	10.6	53.00	82.0	47.99
Leavitt Meadows, CA	7,200	5/1/84	1.60	2.8	33.00	42.6	36.91
Lobdell Lake, CA	9,200	5/1/84	2.40	3.2	23.70	37.4	22.35
Poison Flat, CA	7,900	5/1/84	2.50	4.4	-----	47.4	31.39
Sonora Pass Bridge, CA	8,800	5/1/84	2.80	4.3	38.79	55.8	32.39
Spratt Creek, CA	6,080	5/1/84	1.70	2.7e	34.00	48.1e	35.00
Virginia Lakes Ridge, CA	9,200	5/1/84	1.60	3.3	26.10	42.3	17.32
Wet Meadows #2, CA	8,050	5/1/84	3.20	10.5	49.70	79.4	43.02
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	5/1/84	3.60	3.7	29.30	18.2	14.75
Buckskin, Lower	6,700	5/1/84	3.90	3.2	31.20	26.4	19.88
Corral Canyon	8,500	5/1/84	4.20	4.0	32.80	26.2	22.08
Dorsey Basin	8,100	5/1/84	4.50	4.1	-----	30.4	22.40
Granite Peak	7,800	5/1/84	5.60	-----	-----	50.5e	25.05
Green Mountain	8,000	5/1/84	4.90	3.7	41.10	28.1	25.38
Lamance Creek	6,000	5/1/84	3.70	2.8	37.50	31.1	-----
Lamoille #3	7,700	5/1/84	5.30	4.2	39.60	28.5	21.90
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	5/1/84	6.40	3.8	40.20	34.3	23.86
Big Bend	6,700	5/1/84	1.80	1.5	19.00	18.7	13.07
Fawn Creek #2	7,000	5/1/84	5.60	3.8	40.80	34.4	19.58
Goat Creek	8,800	5/1/84	7.50	4.5	40.70	33.8	26.50
Jack Creek #2, Upper	7,250	5/1/84	5.80	2.0	33.50	33.8e	22.18
Laurel Draw	6,700	5/1/84	2.50	2.2	31.80	28.3	21.04
Pole Creek Ranger Station	8,330	5/1/84	2.70	2.5	23.60	19.9	15.84
Seventy Six Creek	7,100	5/1/84	2.40	1.6	25.60	21.8	16.27
<u>EASTERN NEVADA</u>							
Hole-in-Mountain	7,900	5/1/84	5.10	5.40	45.50	41.8	41.80
Ward Mountain	8,900	5/1/84	3.80	1.30	18.30	24.5	19.60
<u>NORTHERN NEVADA</u>							
Cedar Pass, CA	7,100	5/1/84	3.70	5.70	-----	37.8	-----
Disaster Peak	6,500	5/1/84	2.30	2.60	28.90	24.6	16.71
Dismal Swamp #2, CA	7,050	5/1/84	6.80	6.80	-----	58.9	-----

All SNOTEL Data Provisional

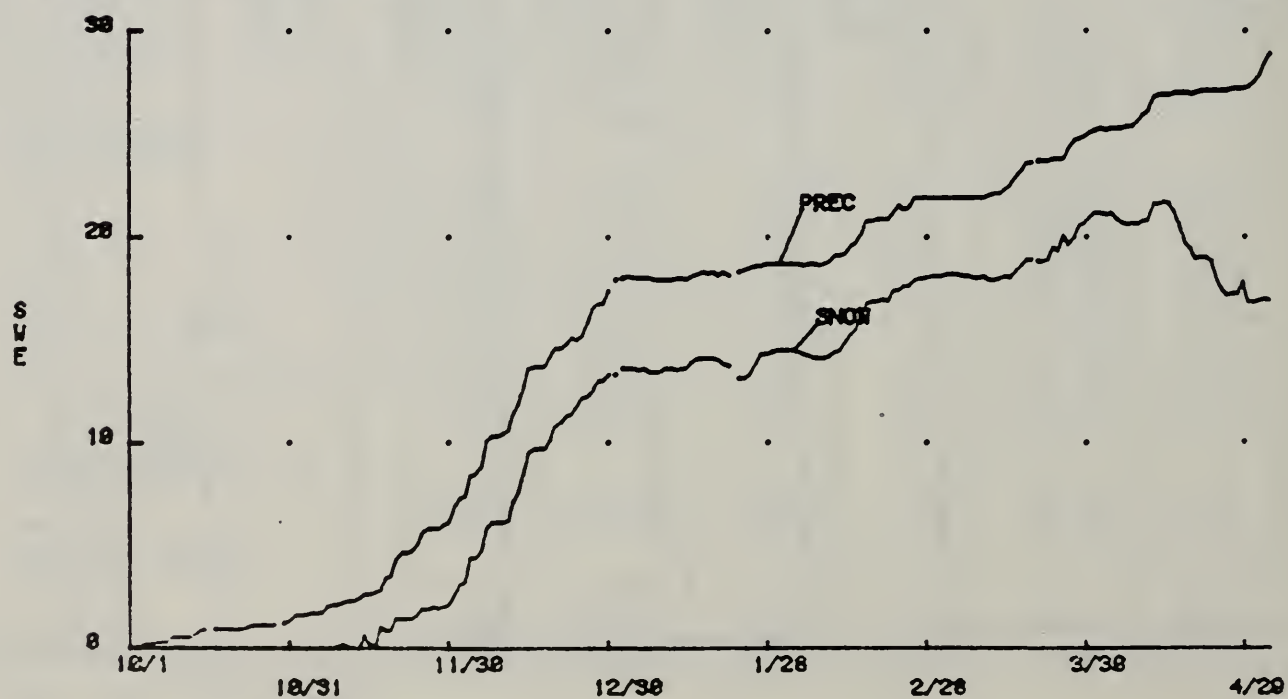
PRECIPITATION (Inches) MAY 1984, National Weather Service

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Month's Precip.	Last Year	*Normal	This Year	Last Year	*Normal
<u>CARSON-WALKER</u>							
Bridgeport Ranger Station	6,560	.70	.80	.37	6.53	15.03	8.89
<u>HUMBOLDT</u>							
Austin	6,605	2.48	2.93	1.77	13.26	12.81	8.89
Battle Mountain	4,530	.92	1.14	.99	4.89	5.10	5.80
Deeth	5,338	1.57	1.75	----	12.59	12.56	----
Elko	5,075	1.00	1.28	.93	11.80	10.01	6.37
Emigrant Pass	5,755	1.67	1.38	1.25	12.41	11.27	7.84
Jigg's	5,760	1.08	1.13	----	14.39	11.19	----
Lamoille	5,800	1.65	1.06	2.21	12.57	-----	11.34
Paradise Valley	4,675	1.36	1.58	.46	13.75	11.90	6.47
Wells	5,650	1.04	1.35	.94	11.73	8.49	5.97
Winnemucca	4,301	1.24	.82	----	9.39	7.56	----
<u>SNAKE-OWYHEE</u>							
Contact	5,365	.53	1.18	.83	----	5.87	5.27
Mountain City Ranger Stat.	5,620	1.47	1.36	1.02	12.46	8.69	8.32
<u>EASTERN NEVADA</u>							
Montello	4,880	1.02	.60	.66	5.88	5.80	3.76
Ruby Lake	6,012	1.34	1.52		15.27	11.44	----
<u>NORTHERN GREAT BASIN</u>							
Alturas Ranger Station	4,400	1.00	1.63	1.00	11.79	11.89	9.41
Cedarville	4,670	1.54	1.50	.97	13.30	10.93	11.01
Fort Bidwell	4,498	1.63	1.69	1.04	19.98	17.98	12.25
Orovada	4,310	1.70	3.33	1.07	10.73	10.66	7.11

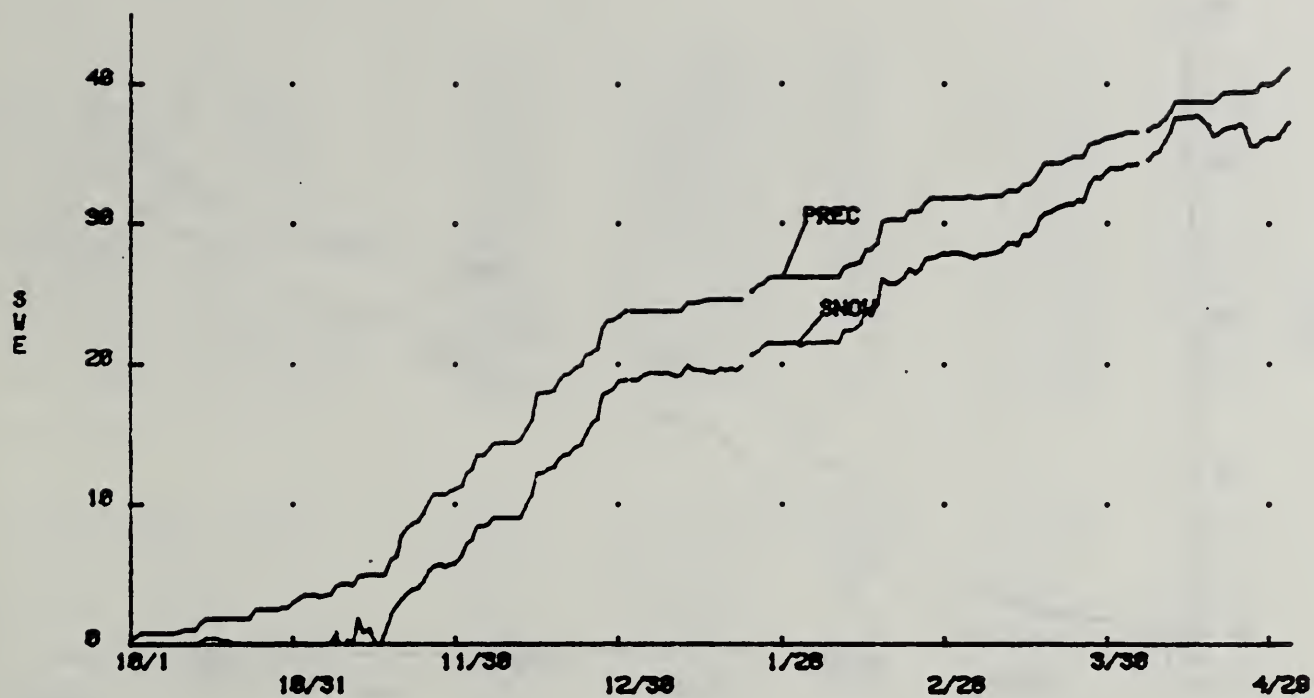
SITE — BUCKSKIN LOWER



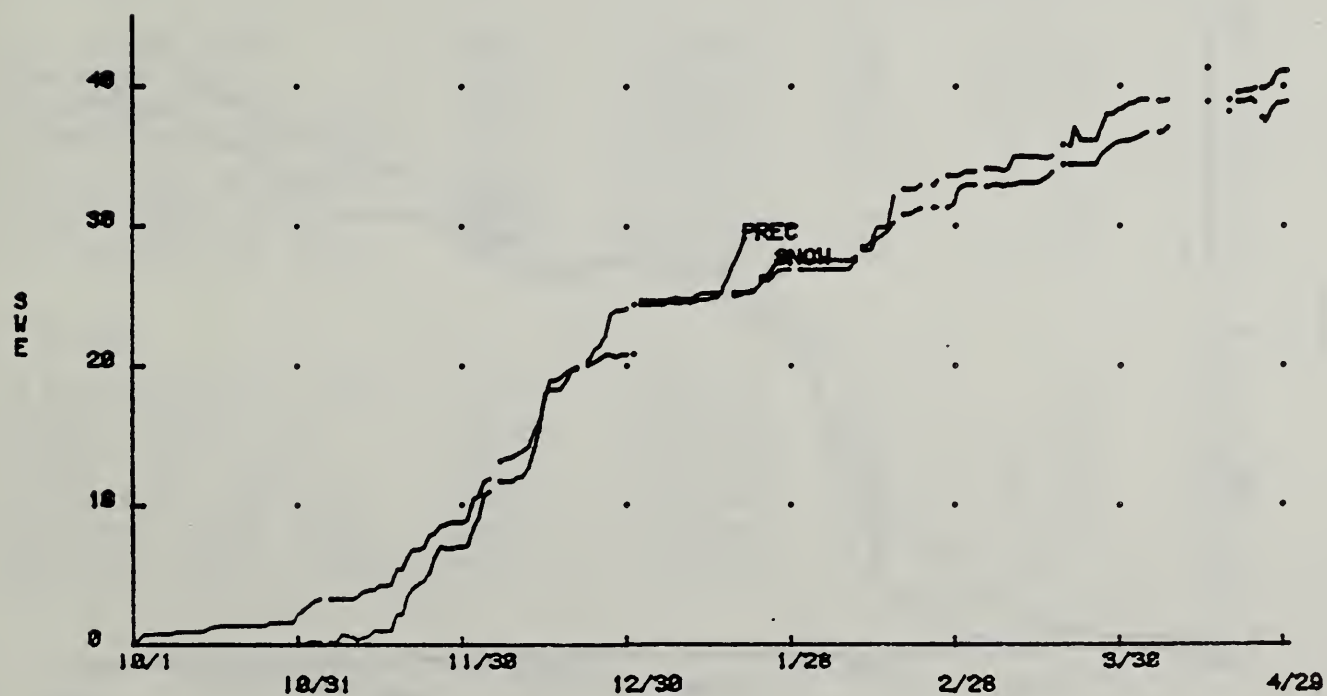
SITE — LAUREL DRAW

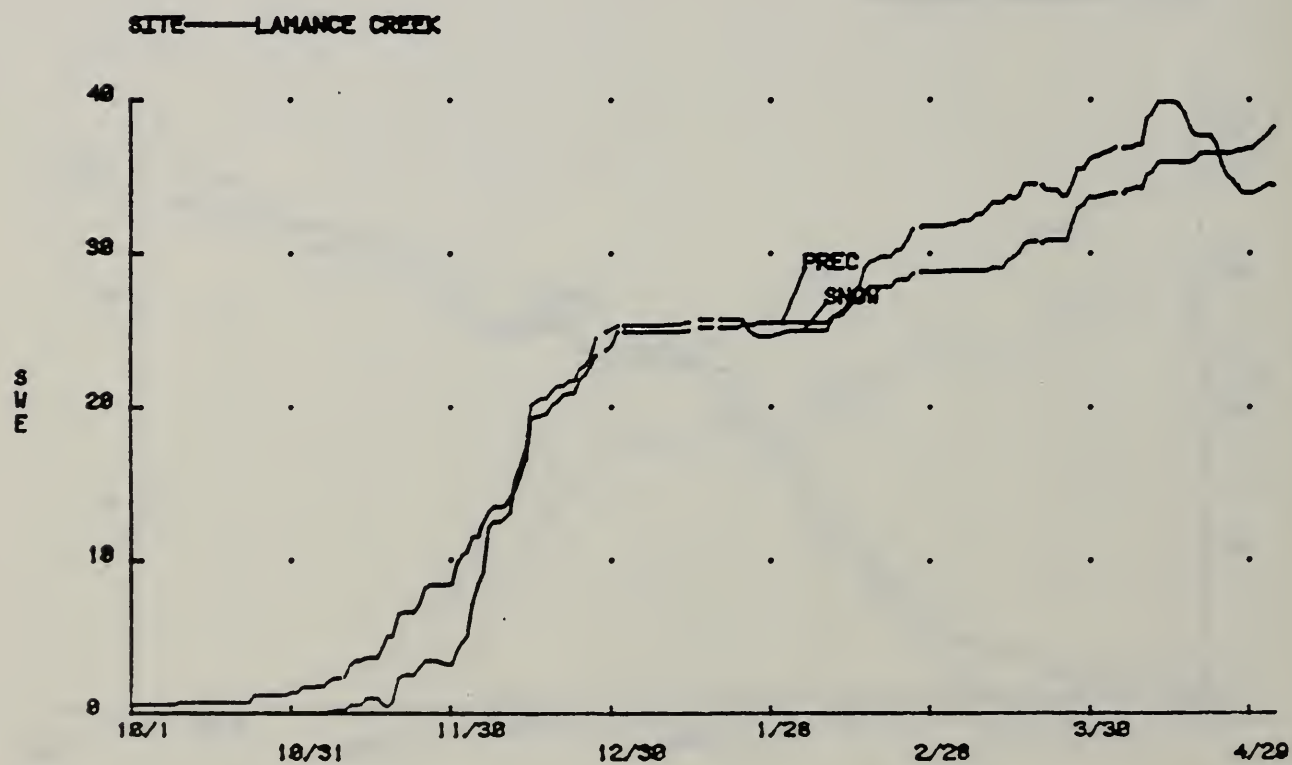
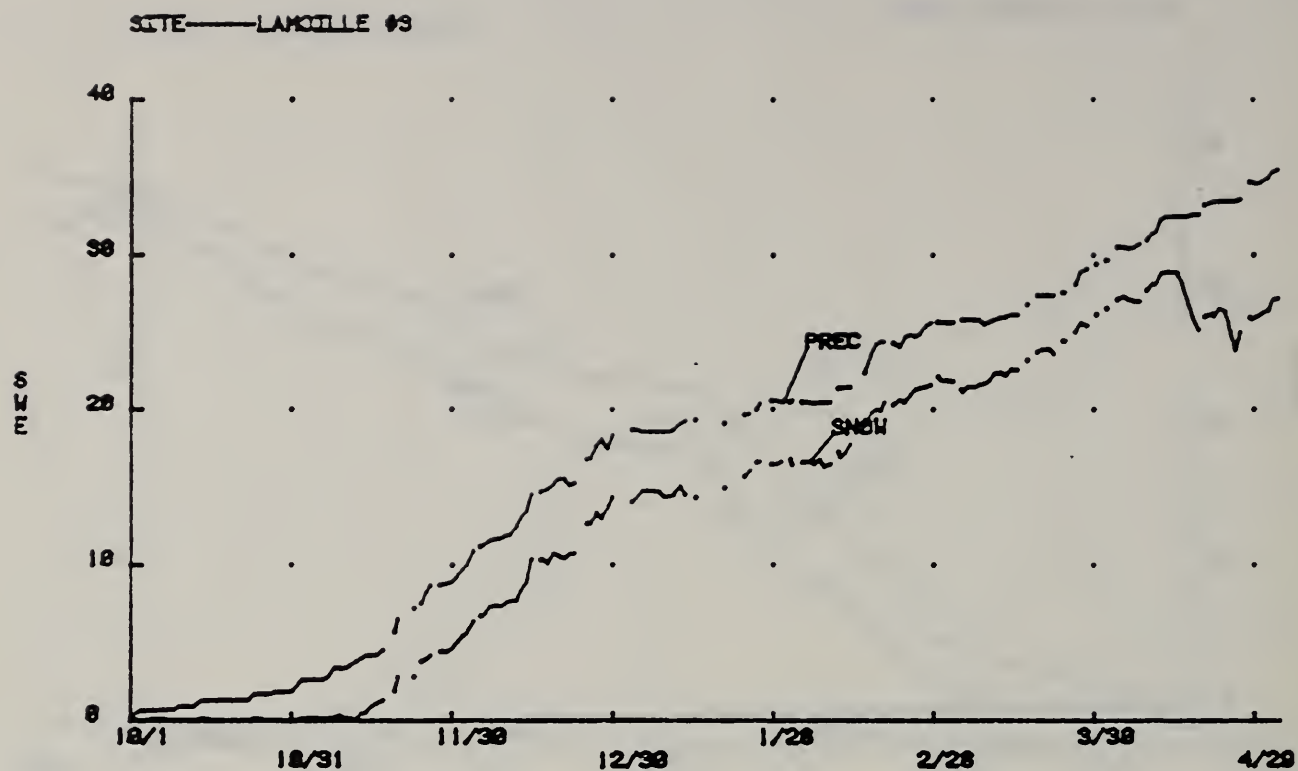


SITE—DORSEY BASIN



SITE—GREEN MOUNTAIN





SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average +

LAKE TAHOE

ECHO PEAK (CA)	7800	5/01/84	89	43.8E	79.5	35.8
ECHO SUMMIT (CA)	7450	4/27/84	73	36.3	81.6	25.7
FALLEN LEAF (CA)	6300	5/01/84	---	.0S	11.3	1.8
FREEL BENCH (CA)	7300	5/01/84	15	7.2E	25.5	4.5
HAGANS MEADOW (CA)	8000	5/01/84	26	12.6E	39.8	11.3
HEAVENLY VALLEY (CA)	8850	5/01/84	55	27.2E	52.5	26.6
MARLETTE LAKE	8000	5/01/84	152	25.5E	48.2	19.7
RUBICON #2 (CA)	7500	5/01/84	57	27.9E	66.1	30.6
TAHOE CITY CROSS (CA)	6750	5/01/84	5	2.7E	43.9	--
WARD CREEK #3 (CA)	6750	5/01/84	65	32.0E	72.3	35.2

TRUCKEE RIVER

BIG MEADOWS (CA)	8300	5/01/84	54	26.5E	43.3	--
CASTLE CREEK (CA)	7400	4/30/84	120	59.3	--	49.0
CSS LAB (CA)	6900	4/30/84	59	25.8	82.2	--
DONNER SUMMIT (CA)	6900	4/25/84	84	41.1	80.8	32.8
FORDYCE LAKE (CA)	6500	4/24/84	68	33.7	92.9	38.0
FURNACE FLAT (CA)	6700	4/24/84	89	46.9	****	46.4
INDEPENDENCE CAMP CA	7000	5/01/84	24	11.7E	39.9	15.9
INDEPENDENCE CREEK	6500	5/01/84	3	1.3E	24.3	6.1
INDEPENDENCE LAKE CA	8450	5/01/84	105	51.5E	76.7	43.9
MT. ROSE	9000	5/01/84	90	44.1E	64.6	32.5
MT. ROSE SKI AREA	9000	5/01/84	110	54.1E	83.6	41.1
SQUAW VALLEY #2 (CA)	7500	5/01/84	87	42.4E	****	50.2
SQUAW VALLEY G.C., CA	8200	5/01/84	103	50.6E	****	54.5
TRUCKEE #2 (CA)	6400	5/01/84	11	5.3E	26.1	--

CARSON RIVER

BLUE LAKES (CA)	8000	4/26/84	89	39.4	--	34.0
ECHO PEAK (CA)	7800	5/01/84	89	43.8E	79.5	35.8
CARSON PASS, UP (CA)	8600	4/26/84	67	31.7	70.0	33.2
EBBETTS PASS #2 (CA)	8700	5/01/84	79	37.9	75.5	37.2
POISON FLAT #2 (CA)	7900	5/01/84	7	3.3E	27.1	12.2
SPRATT CREEK (CA)	6080	5/01/84	---	.0S	1.5	--
WET MEADOWS #2 (CA)	8100	5/01/84	82	40.1S	81.0	40.5

WALKER RIVER

LEAVITT MEADOWS (CA)	7200	5/01/84	---	.0S	22.3	4.4
LOBDELL LAKE (CA)	9200	5/01/84	32	16.2E	38.4	16.1
SONORA PASS (CA)	8800	5/01/84	51	23.0E	48.2	21.4
SONORA PASS BRIDGE	8800	5/01/84	54	24.3S	45.8	23.2
VIRGINIA LAKES (CA)	9500	5/01/84	43	21.0S	32.9	15.3
VIRGINIA LAKES RIDGE	9200	5/03/84	42	16.6	34.1	17.9

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average +

NORTHERN GREAT BASIN

CEDAR PASS (CA)	7100	5/01/84	50	22.8S	--	14.5
DISASTER PEAK	6500	5/01/84	45	17.7S	12.1	7.4
DISMAL SWAMP #2 (CA)	7000	5/01/84	88	39.8S	--	29.5

SNAKE RIVER

BEAR CREEK	7800	5/01/84	100	39.3E	28.2	21.2
GOAT CREEK	8200	4/30/84	96	36.0	26.8	20.2
POLE CREEK R.S.	8330	4/30/84	106	40.0	28.4	24.4
SEVENTYSIX CREEK	7100	5/01/84	57	22.3E	14.1	6.1

OWYHEE RIVER

BIG BEND	6700	5/01/84	16	10.0E	8.4	2.2
FAWN CREEK #2	7050	5/01/84	91	35.3S	--	--
JACK CREEK, UPPER	7250	5/01/84	50	19.4E	15.5	4.2
JACK CREEK #2, UPPER	7280	5/01/84	104	40.4S	32.4	14.6
JACKS PEAK	8420	5/01/84	125	48.8E	39.7	27.0
LAUREL DRAW	6700	5/01/84	34	13.6E	8.6	1.3
TAYLOR CANYON	6200	4/24/84	22	8.7	.0	.4

UPPER HUMBOLDT RIVER

CORRAL CANYON	8500	5/01/84	75	28.4E	23.7	12.3
DORSEY BASIN	8100	5/01/84	93	36.4S	22.3	10.4
GREEN MOUNTAIN	8000	5/01/84	63	24.6E	21.1	8.0
LAMOILLE #1	7100	4/30/84	46	15.8	14.0	3.6
LAMOILLE #3	7700	4/30/84	59	22.9	16.3	6.8
LAMOILLE #5	8700	4/30/84	108	49.2	40.0	27.6

LOWER HUMBOLDT RIVER

BUCKSKIN, LOWER	6700	5/01/84	60	22.7E	17.8	4.1
GRANITE PEAK	7800	5/01/84	93	36.4S	37.2	16.6
LAMANCE CREEK	6000	5/01/84	60	29.2S	21.9	5.0

EASTERN NEVADA

HOLE-IN-MOUNTAIN	7900	5/01/84	120	46.8S	34.3	--
WARD MOUNTAIN #2	9200	5/01/84	31	11.9S	35.6	--

E = Estimated

S = SNOTEL Provisional/Depth estimated

NOTE: All Averages based on
1961-1980, 20 Year Period

SNOW MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average +

DESERT RESEARCH INSTITUTE

TAHOE-TRUCKEE BASIN

Alder Creek	6,960	4/29/84	84	44.1	----	----
Apollo Way	7,300	4/28/84	0	0	42.4	----
Bennett Flat	6,200	4/29/84	0	0	28.2	----
Brockway Summit	7,200	4/29/84	30	14.5	----	----
Cabin Creek	6,540	4/28/84	0	0	27.3	----
Clear Creek	5,800	4/29/84	0	0	0	----
Cliff Ranch, Franktown	5,250	4/29/84	0	0	0	----
Davis Creek	5,160	4/28/84	0	0	0	----
Evergreen Hills Road	5,700	4/28/84	0	0	0	----
Fuller Lake	6,200	4/29/84	0	0	0	----
Galena Creek	7,440	4/28/84	31	14.5	----	----
Hennes Past Jct.	6,410	4/29/84	7	3.2	29.1	----
Hobart Mills	5,850	4/29/84	0	0	9.9	----
Incline Creek	6,235	4/28/84	0	0	1.0	----
Jones Creek	6,000	4/28/84	0	0	0	----
Joy Lake	6,000	4/28/84	0	0	0	----
Jct. 395 & NV 27	4,590	4/28/84	0	0	0	----
Lancer	5,110	4/28/84	0	0	0	----
Little Valley	6,540	4/29/84	0	0	11.0	----
Mt. Rose Resort	8,280	4/28/84	61	31.6	68.0	----
North Star Fire Dept.	6,320	4/29/84	0	0	9.4	----
RNR Forestry Site	6,400	4/28/84	0	0	12.4	----
Reindeer Lodge	7,060	4/28/84	0	0	25.1	----
Sagehen Creek	6,340	4/29/84	0	0	----	----
Sky Tavern	7,620	4/28/84	5	3.0	42.7	----
Spooner Summit	7,260	4/29/84	0	0	30.6	----
Squaw Valley Fire Dept.	6,240	4/28/84	0	0	39.5	----
Tahoe City	6,240	4/28/84	0	0	28.2	----
Tahoe Meadows	8,540	4/28/84	94	46.8	95.8	----
Tamarack Lake	8,820	4/28/84	74	38.3	----	----
Third Creek	8,000	4/28/84	24	12.4	58.6	----
Thunder Cliff	6,200	4/28/84	0	0	28.2	----
Truckee-Tahoe Airport	5,900	4/29/84	0	0	0	----
Whites Creek	5,670	4/28/84	0	0	0	----

